

## **Introduction to AWS:**

1. History of AWS
2. Networking and Compute
3. Storage, Database, Migration and Analytics
4. Security Management Tools
5. Application Services and Developer Tools
6. Mobile Services and IoT

## **AWS- Beginner to Intermediate**

1. IAM and S3
2. Cloudfront
3. Snowball
4. Storage Gateway
5. Athena Vs Macie
6. EC2 with Hands on
7. Security Group Basics
8. EBS Volumes and Snapshots
9. AMI Types
10. ENI vs ENA vs EFA
11. Encrypted Root Devices, Volumes and Snapshots
12. Cloudwatch
13. AWS command line
14. Using IAM roles with EC2
15. Using Boot Strap Scripts
16. EC2 Instance Meta Data
17. EFS
18. FSx for windows and Fix for lustre
19. EC@ Placement Groups
20. WAF
21. RDS
22. RDS Backups, Multi A-Z, Read Replica
23. DynamoDB
24. Redshift
25. Aurora
26. ElastiCache
27. DNS
28. Route53 routing policies
29. VPC and Networking Basics
30. VPC Flow Logs
31. VPC End Points
32. HA Theory
33. AWS Load Balancers
34. Autoscaling Groups and Policies
35. SQS
36. SWF
37. SNS
38. Elastic Transcoder
39. API Gateway
40. Kinesis
41. Web Identity Federation and Cognito
42. Lambda Concept
43. We will build a Serverless web page
44. We will build an Alexa skill
45. We will automate complete infrastructure using Terraform
46. We will deploy a web app in containers(Docker and Kubernetes)
47. ECS and EKS
48. Deploy a web app in ECS EC@ Launch Type
49. Deploy a web app in ECS Fargate Launch Type
50. Deploy a web app in EKS
51. Automate Deployments

52. X-ray
53. Trusted Advisor
54. Guardduty
55. Inspector
56. Service Catalog
57. Secrets Manager
58. Incident and Event Response

### **Some DevOps Tools and Concepts:**

1. Why DevOps
2. CI and CD
3. Difference between Continuous Deployment and Continuous Delivery
4. GIT
5. Jenkins
6. CI using Git and Jenkins
7. Ansible
8. Deploy our app in AWS using Ansible
9. Terraform Deep Dive
10. Docker Deep Dive
11. ELK Stack for logging and visualisation
12. Prometheus and Grafana for monitoring and visualisation
13. Different Deployment Strategies
14. Nginx

### **AWS Advanced Architecting:**

1. Architecting Data Stores
2. Architecting good network
3. Architecting Secure Systems
4. Migrating to AWS
5. Architecting to Scale
6. Business Continuity
7. Deployment and Operations Management
8. Cost Management
9. Well Architected Framework

### **Some More Tools:**

1. Redis
2. Kafka
3. Elasticsearch